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Product Name: TONER TN513

SDS No.:MFP-0412-1

Prepared Date: 4-Feb-2013 Revised Date: 25-Jun-2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TONER TN513 used for: bizhub 454e/554e

Supplier Identification: Konica Minolta Business Solutions (Canada), Ltd. 5875 Explorer Drive Mississauga, Ontario L4W 0E1 Telephone: (866)890-6600 Facsir

Facsimile: (905)283-2511

Emergency Telephone No. CHEMTREC Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms:	
Signal word:	
Hazard Statement:	
Precautionary Statements:	

Other Hazards

Dust explosion (like most finely divided organic powders).



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3. COMPOSITION / INFORMATION ON	INGREDIENTS	
Substance [] Preparation [2	X]	
Major Ingredients:		
[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	65-75
Ferrite Iron oxide	1309-37-1	5-15
. Manganese oxide	1344-43-0	1-10
Wax	+++	1-10
Carbon black	1333-86-4	1-10
Wax-2	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	<1
Hazardous Ingredients: Chemical Name: Carbon black		
CAS No.: 1333-86-4		
EINECS-No.: 215-609-9	REACH Registration number: 0	1-2119384822-32-XXXX
EINECS-No.: 215-609-9 NTP(USA): Not listed	REACH Registration number: 0 IARC Monographs: Group 2B	1-2119384822-32-XXXX
NTP(USA): Not listed	REACH Registration number: 0 IARC Monographs: Group 2B	1-2119384822-32-XXXX
NTP(USA): Not listed California Proposition 65(USA): Listed	IARC Monographs: Group 2B	1-2119384822-32-XXXX
NTP(USA): Not listed	-	1-2119384822-32-XXXX
NTP(USA): Not listed California Proposition 65(USA): Listed H code(EC): Not applicable	IARC Monographs: Group 2B	1-2119384822-32-XXXX
NTP(USA): Not listed California Proposition 65(USA): Listed H code(EC): Not applicable Chemical Name: Titanium dioxide	IARC Monographs: Group 2B DFG-MAK(GER): III 3B	
NTP(USA): Not listed California Proposition 65(USA): Listed H code(EC): Not applicable Chemical Name: Titanium dioxide CAS No.: 13463-67-7	IARC Monographs: Group 2B DFG-MAK(GER): III 3B EINECS-No.: 236-675-5	
NTP(USA): Not listed California Proposition 65(USA): Listed H code(EC): Not applicable Chemical Name: Titanium dioxide CAS No.: 13463-67-7 NTP(USA): Not listed	IARC Monographs: Group 2B DFG-MAK(GER): III 3B EINECS-No.: 236-675-5	
NTP(USA): Not listed California Proposition 65(USA): Listed H code(EC): Not applicable Chemical Name: Titanium dioxide CAS No.: 13463-67-7 NTP(USA): Not listed H code(EC): Carc. 2, H351	IARC Monographs: Group 2B DFG-MAK(GER): III 3B EINECS-No.: 236-675-5	

attention.

Inhalation:	Move victim to fresh air immediately. If symptoms occur, get medical attention.
Eye Contact:	Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
Skin Contact:	Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture. Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures:NonePrecautions:Do not breathe dust. Avoid contact with eyes.Safe Handling Advice:Try not to disperse the particulates.StorageTechnical Measures:NoneStorage Conditions:Storage Conditions:Keep container closed. Store in a cool and dry place. Keep out of reach of children.Incompatible Products:NonePackaging Materials:Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures		
Ventilation: None re	equired with intended use.	
Control Parameters (As total du	st)	
ACGIH-TLV (USA):	10mg/m3 (Inhalable particles),	3.0 mg/m3 (Respirable particles)
OSHA-PEL (USA):	15mg/m3 (Total dusts),	5.0 mg/m3 (Respirable fraction)
DFG-MAK (GER):	4mg/m3 (Inhalable fraction),	1.5mg/m3 (Respirable fraction)
Safe Work Australia-TWA:	10mg/m3	
Control Parameters (As Ingredie	ents: Carbon black)	
ACGIH-TLV (USA):	3mg/m3	
OSHA Z-Table (USA):	3.5mg/m3	
Safe Work Australia-TWA:	3mg/m3	
Control Parameters (As Ingredie	ents: Titanium dioxide)	
ACGIH-TLV(USA): 10m	ng/m3	
OSHA Z-Tables(USA): 1	15mg/m3	
Safe Work Australia-TWA:	10mg/m3	
Control Parameters (As Ingredie	nts: Manganese oxide)	
ACGIH-TLV(USA): 0.1m	ng/m3(Mn;Inharable Fraction)	
0.02	mg/m3(Mn;Respirable Fraction)	
OSHA Z-Tables(USA):c	eiling 5mg/m3	
Safe Work Australia-TWA:	1mg/m3(Mn)	
Personal Protective Equipment		
Not required under norma	I conditions. For use other than	in normal operating procedures (such as in the
event of large spill), goggle	s and respirators may be require	d.
Hygiene Measures: Wash h	hands after handling.	



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State: Solid	Color: Black
Form: Powder (mean dia. is 5-10 um by volume)	
Odor:	Almost odorless
PH	Not applicable
Boiling Point(°C):	Not applicable
Melting Point(°C)/[F]:	Around No data available /[] (Softening Point)
Flash Point(°C):	Not applicable
Auto-Ignition Temperature(°C):	No data available
Upper/ lower flammability or explosive limits	No data available
Explosion Properties:	No data available
Evaporation rate:	No data available
Vapor Pressure:	Not applicable
Vapor density:	Not applicable
Specific Gravity:	1.2
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	None.	
Stability:	Stable except above 200C(392F).	
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.	
Conditions to avoid:	Electric discharge, throwing into fire.	
Materials to Avoid:	Oxidizing materials.	
Hazardous Decomposition Products: CO, CO2, NOx and smoke.		
Hazardous Polymerization:	Will not occur.	



SAFETY DATA SHEET

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity:		
Ingestion(oral), LD50(mg/kg):	>2000(Rat) *	
Dermal, LD50(mg/kg):	No data available	
Inhalation, LC50(mg/l):	>5.13(Rat,4hour) *	
(This was the highest attainable concentration.)		
Eye irritation:	Practically None irritant(Rabbit) *	
Skin irritation:	None irritant(Rabbit) *	
Skin sensitizer:	Non sensitizer (Mouse) *	
Local Effects: see Chronic Toxicity or Long term Toxicity		

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m3), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m3). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Carcinogenicity

The IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative(AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

- Ecotoxicity: No data available
- Mobility: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available



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13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

Ingredient carbon black and titanium dioxide subject to California Proposition 65 is bound in polymermatrices so that warnings are not required.

CERCLA(Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance : None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EU) 2019/1021 of the European Parliament and of the Council on Persistent Organic Pollutants (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable
 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.



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16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0 Full text of H phrases:

Carc: Carcinogenicity

H351: Suspected of causing cancer

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschuugsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN : Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.